

AMENDMENTS TO THE CLAIMS

1-19. (Cancelled)

20. (Previously Presented) A material with a surface nanometer functional structure comprising:

 a substrate;

 a nanostructure on the substrate; and

 at least one layer of a surface nanometer functional structure being formed on a surface of the nanostructure, the surface nanometer functional structure includes at least one of a plurality of micro nanowires and a plurality of nanodots.

21. (Previously Presented) The material of claim 20, wherein the substrate has an ultrahigh surface area to volume ratio.

22. (Cancelled)

23. (Cancelled)

24. (Original) The material of claim 20, wherein the surface nanometer functional structure is a homogeneous functional layer.

25. (Previously Presented) The material of claim 24, wherein the one layer of the surface nanometer functional structure is a molecule self-assembling reaction layer.

26. (Previously Presented) The material of claim 20, wherein the material of the surface nanometer functional structure includes at least one of organic molecules, metal oxides, non-metal oxides, and metals.

27. (Previously Presented) A one-dimensional nanometer material with a surface nanometer functional structure, which comprises:

a nanowire; and
at least one layer of a surface nanometer functional structure formed on a surface of the nanowire, the surface nanometer functional structure includes at least one of a plurality of micro nanowires and a plurality of nanodots.

28. (Cancelled)

29. (Cancelled)

30. (Original) The material of claim 27, wherein the surface nanometer functional structure is a homogeneous functional layer.

31. (Previously Presented) The material of claim 27, wherein the material of the surface nanometer functional structure includes at least one of organic molecules, metal oxides, non-metal oxides, and metals.

32. (Previously Presented) The material of claim 20, wherein the nanostructure has a longitudinal axis passing through a center of the nanostructure and at least one of the layers of the surface nanometer functional structure fails to be on the longitudinal axis.

33. (Previously Presented) The material of claim 32, wherein the surface nanometer functional structure is a nonlinear structure.

34. (Previously Presented) The material of claim 33, wherein the surface nanometer functional structure is branched from the nanostructure.

35. (Previously Presented) The material of claim 32, wherein the surface nanometer functional structure is branched from the nanostructure.

36. (Previously Presented) The material of claim 32, wherein at least one layer of the surface nanometer functional structure is applied to a side of the nanostructure.

37. (Previously Presented) The material of claim 27, wherein the nanowire has a longitudinal axis passing through a center of the nanowire and at least one layer of the surface nanometer functional structure failing to be on the longitudinal axis.

38. (Previously Presented) The material of claim 37, wherein the surface nanometer functional structure is a nonlinear structure.

39. (Previously Presented) The material of claim 38, wherein the surface nanometer functional structure is branched from the nanowire.

40. (Previously Presented) The material of claim 37, wherein the surface nanometer functional structure is branched from the nanowire.

41. (Previously Presented) The material of claim 37, wherein at least one layer of the surface nanometer functional structure is applied to a side of the nanowire.